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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/077,778	02/20/2002	Yoshinobu Higuchi	1450.1015	5137
21171 7	7590 01/04/2006		EXAMINER	
STAAS & HALSEY LLP		PEUGH, BRIAN R		
SUITE 700 1201 NEW YORK AVENUE, N.W.			ART UNIT	PAPER NUMBER
WASHINGTON, DC 20005			2187	

DATE MAILED: 01/04/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Summary		10/077,778	HIGUCHI ET AL.				
		Examiner	Art Unit				
		Brian R. Peugh	2187				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) 🛛 F	Responsive to communication(s) filed on <u>02 De</u>	ecember 2005.					
′=		action is non-final.					
- '=	,						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
	n of Claims	.,,,,,,,,,,,,,.					
·							
•	Claim(s) <u>48</u> is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
	5) Claim(s) is/are allowed.						
-	6) Claim(s) 48 is/are rejected.						
	Claim(s) is/are objected to.	alastia - manufactura					
ا الره	Claim(s) are subject to restriction and/or	election requirement.					
Applicatio	n Papers						
9) The specification is objected to by the Examiner.							
10)□ T	he drawing(s) filed on is/are: a)□ acce	pted or b) objected to by the E	Examiner.				
Д	applicant may not request that any objection to the d	rawing(s) be held in abeyance. See	: 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority un	nder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1	1. Certified copies of the priority documents have been received.						
2	2. Certified copies of the priority documents have been received in Application No						
3	3. Copies of the certified copies of the priority documents have been received in this National Stage						
	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s	s)						
1) X Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) 🔲 Notice (of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te				
	ation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	5)	atent Application (PTO-152)				

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DETAILED ACTION

Response to Amendment

This Office Action is in response to applicant's communication filed December 2, 2005 in response to PTO Office Action dated June 3, 2005. The applicant's remarks and amendment to the specification and/or claims were considered with the results that follow.

Claim 48have been presented for examination in this application. In response to the last Office Action, claims 1-47 have been cancelled. Claim 48 has been added.

Claim Objections

Claim 48 objected to because of the following informalities:

Claim 48, line 10: Remove "to" for clarity.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 48 is rejected under 35 U.S.C. 102(b) as being anticipated by Ziperovich (US# 5,737,342)

Ziperovich teaches a memory device, comprising: a nonvolatile memory [disk (12); Fig. 1; col. 5, line 40] connected to a first memory bus[bus from 74->50->54->etc.]. and capable of storing data through said first memory bus [col. 6, lines 15-27]; a volatile memory [DRAM (72)] connected to a second memory bus [bus from 74->72], and capable of being random-accessed through said second memory bus [col. 6, lines 63-65]; and a controller [Drive ASIC (70)] having a first internal terminal connected to said first memory bus (inherently required for communication between (74) and (50), a second internal terminal connected to said second memory bus [inherently required for communication between (74) and (72)], and an external terminal connected to an external bus [terminal inherent to interface (76) for external communication], said controller for transferring data between said nonvolatile memory and said volatile memory through said first and second internal terminals [although not specifically recited, bidirectional data flow control circuit/interface (50) directs data flow to the external circuitry (74, 72, 76) for read operations, col. 6, lines 15-27, wherein, when the data transfer is not performed, said controller controls to access from an exterior to said volatile memory through said external terminal and said second internal terminal, in accordance with an instruction through said external bus [col. 6, lines 15-27, and said controller performs error detection and/or correction processing in said data transfer [col. 6, line 59].

Response to Arguments

Applicant's arguments with respect to claim 48 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art corresponds to related volatile/nonvolatile memory and ECC systems.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian R. Peugh whose telephone number is (571) 272-4199. The examiner can normally be reached on Monday-Thursday from 7:00am to 4:30pm. The examiner can also be reached on alternate Friday's from 7:00am to 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Donald Sparks, can be reached on (571) 272-4201. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

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Brian RIPeugh/

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December 27, 2005